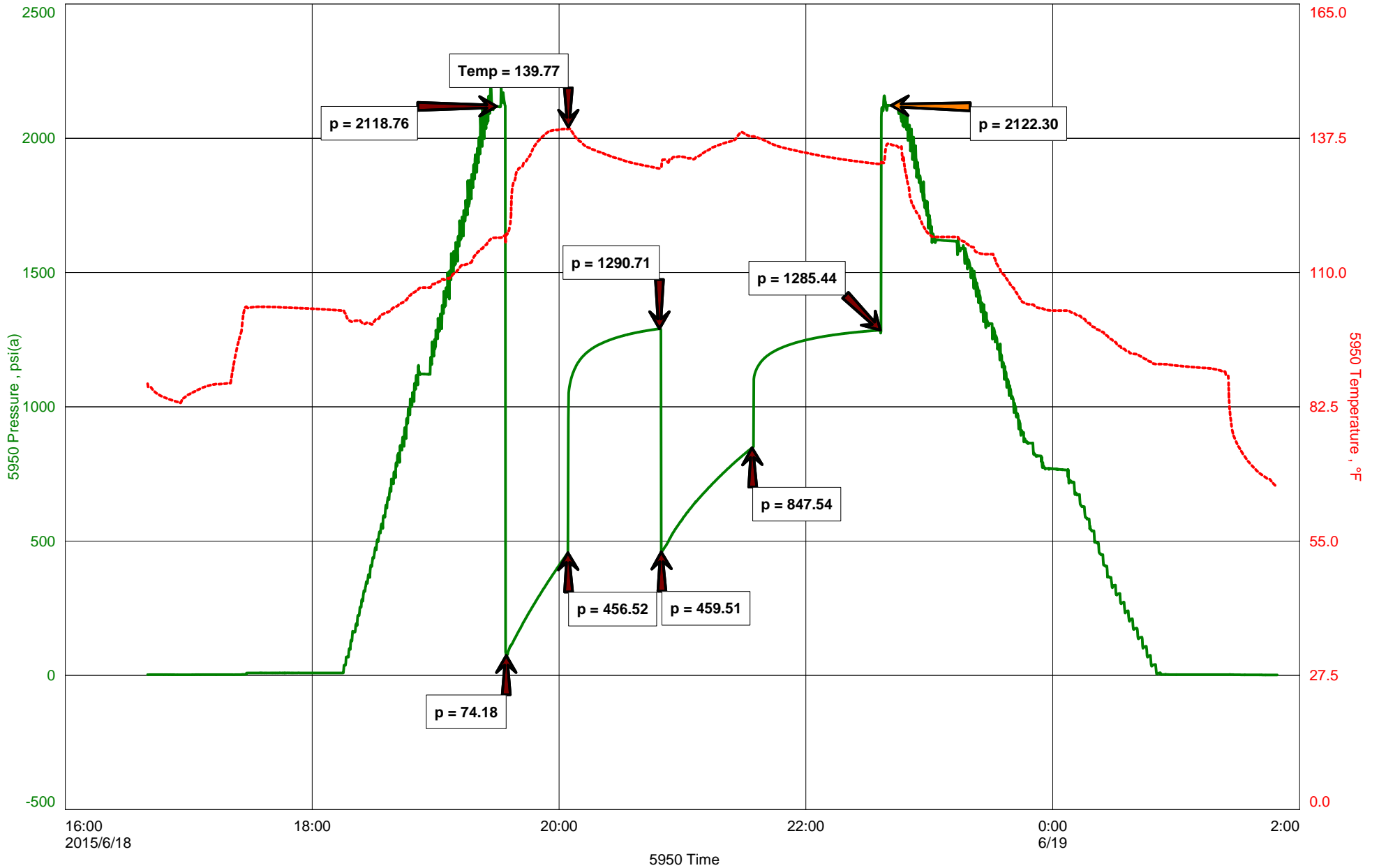


L.D. Drilling Inc
Dst #3 Lans H-L 4360-4485'
Start Test Date: 2015/06/18
Final Test Date: 2015/06/18

Howard #1-21
Formation: Dst #3 Lans H-L 4360-4485'
Pool: Infield
Job Number: P0081

Howard #1-21





Hoisington, Kansas

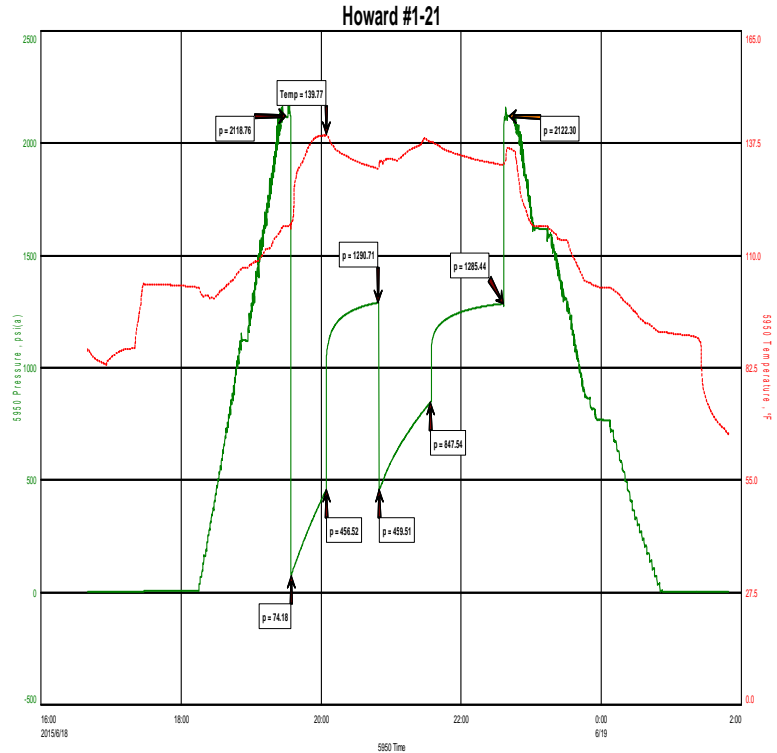
Michael Carroll
620-617-0368
carroll.dtlc@gmail.com

General Information

Company Name L.D. Drilling Inc

Contact L.D. Davis
Well Name Howard #1-21
Unique Well ID Dst #3 Lans H-L 4360-4485'
Surface Location Sec21-6s-36w Thomas County
Field NA
Well Type Vertical
Test Type Drill Stem Test
Well Operator L.D. Drilling Inc

Formation Dst #3 Lans H-L 4360-4485'
Well Fluid Type 06 Water
Test Purpose Initial Test
Start Test Date 2015/06/18
Start Test Time 16:40:00
Final Test Time 01:50:00
Job Number P0081
Report Date 2015/06/18
Prepared By Michael Carroll



TEST RECOVERY

Remarks	Recovery:	471'	OCMW	3%O	52%W	45%M
		630'	SLOCWM		2%O	90%W 8%M
		378'	VSLOCWM		1%O	44%W 55%M
		315'	MW		92%W	8%M

Total Fluid: 1794'

Tool Sample: 100%W

Chlorides 57000 PPM
RW .15 @ 65 Degrees
PH 7



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: HOWARD1-21DST#3

TIME ON: 1640 6-18
 TIME OFF: 0150 6-19

Company L.D. Drilling Inc Lease & Well No. Howard #1-21
 Contractor L.D. Drilling Charge to L.D. Drilling Inc
 Elevation 3385KB Formation Lans H-L Effective Pay _____ Ft. Ticket No. P0081
 Date 6-18-15 Sec. 21 Twp. 6 S Range 36 W County Thomas State KANSAS
 Test Approved By Kim Shoemaker Diamond Representative Michael Carroll

Formation Test No. 3 Interval Tested from 4360 ft. to 4485 ft. Total Depth 4485 ft.
 Packer Depth 4355 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4360 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4345 ft. Recorder Number 5950 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4460 ft. Recorder Number 0230 Cap. 5000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 57 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 4500 P.P.M. Drill Pipe Length 4327 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 11 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 125(30a) ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1" BLOW-BUILT TO BOB IN 3 MINUTES 25 SECONDS NOBB
 2nd Open: 1/4" BLOW-BUILT TO BOB IN 4 MINUTES 30 SECONDS NOBB

Recovered 471 ft. of OCMW 3%O 52%W 45%M CHLORIDES 57000 PPM
 Recovered 630 ft. of SLOCMW 2%O 90%W 8%M RW .15 @ 65 DEGREES
 Recovered 378 ft. of VSLOCWM 1%O 44%W 55%M PH 7

Recovered <u>315</u> ft. of <u>MW 92%W 8%M</u>	
Recovered <u>1794</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>100%W</u>	Total

Time Set Packer(s) 7:32 P.M. A.M. P.M. Time Started Off Bottom 10:32 P.M. A.M. P.M. Maximum Temperature 140

Initial Hydrostatic Pressure..... (A) 2119 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 74 P.S.I. to (C) 457 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 1291 P.S.I.
 Final Flow Period..... Minutes 45 (E) 460 P.S.I. to (F) 848 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1285 P.S.I.
 Final Hydrostatic Pressure..... (H) 2122 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.